	Application No.	Applicant(s)	
Notice of Allowability			
	10/053,159 Examiner	YAP ET AL. Art Unit	
	Luan Thai	2827	
The MAILING DATE of this communication appeared all claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not inclu inication will be mailed in du	ded e course. THIS
1. This communication is responsive to the amendment file	d June 23, 2003.		
2. X The allowed claim(s) is/are 21-40 (renumbered as 1-11,	17-18, 12-16 and 19-20, respe	ectively).	
3. The drawings filed on 15 January 2002 are accepted by	the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the:	under 35 U.S.C. § 119(a)-(d) o	or (f).	
 Certified copies of the priority documents ha 	ve been received.		
2. Certified copies of the priority documents ha	ve been received in Applicatio	n No	
3. Copies of the certified copies of the priority of	documents have been received	d in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specific			ce a specific
(a) The translation of the foreign language provisional	• •		
 Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application 		r 121 since a specific refere	nce was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			NOTICE OF
 8. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftspern (a) hereto or 2) to Paper No (b) including changes required by the proposed drawing (c) including changes required by the attached Examine 	erson's Patent Drawing Review	n has been approved by the	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			he back) of
9. DEPOSIT OF and/or INFORMATION about the department of the dep			. Note the
Attachment(s)			
1 ☐ Notice of References Cited (PTO-892)	5☐ Notice of Info	rmal Patent Application (PT	O-152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Sur	nmary (PTO-413), Paper No)
3 Information Disclosure Statements (PTO-1449 or PTO/SB/0	08), 7⊠ Examiner's A	mendment/Comment	
Paper No 4		tatement of Reasons for Allo	owance
of Biological Material	9☐ Other .	Lateriori of Neusons for Alle	J.,, ano
	Uhailman	11/29/6)

U.S. Patent and Trademark Office

Notice of Allowahility

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EXAMINER'S AMENDMENT

This Office action is responsive to the amendment filed on June 23, 2003. Claims 21-40 are pending in this application.

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows: Replace each of the words "said" in lines 4, 7 and 8, of the Abstract by –the--.
- 3. Claims 21-40 are allowed and renumbered as 1-11, 17-18, 12-16 and 19-20, respectively.
- 4. The following is an examiner's statement of reasons for allowance:

The prior art taken either singly or in combination fails to anticipate or fairly suggest: a) a multiplayer underbump metallization projecting from the substrate with a sidewall and a layer of metal selected from a group consisting of titanium, chrome, a titanium-nickel-titanium composite, a titanium-nickel-chrome composite, a titanium-platinum-titanium composite, and a titanium-nickel-oxidized silicon composite deposited over or under the multilayer underbump metallization and covering the sidewall of said multilayer underbump

metallization, as recited in independent claim 21; b) the layer of metal and the sealant feature both extend outwardly beyond an edge or periphery of the multilayer underbump metallization, as recited in independent claim 32; and c) a plating membrane and non-wettable dam comprising a metal layer selected from a group consisting of chrome, a titanium-nickel-titanium composite, a titanium-nickel-chrome composite, a titanium-platinum-titanium composite, and a titanium-nickel-oxidized silicon composite deposited under and in contact with the multilayer underbump metallization and extending outwardly beyond a periphery edge of the multilayer underbump metallization, as recited in independent claim 39; especially when these limitations are considered within the specific combination claimed.

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 6:30 AM 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Kamand Cuneo can be reached on (703) 308-1233. The fax phone

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numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Luan Thai

November 29, 2003